Applicant:

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AMENDMENTS TO THE CLAIMS

MAY 1 3 2008

Please amend the claims to read as follows:

1. (Currently Amended) A method comprising:

initiating a channel locking procedure on an incoming channel by a broadband demodulator;

applying a predetermined criterion to interim operational data, said data resulting from an act of said channel locking procedure to lock onto said incoming channel; and

determining whether to continue said channel locking procedure onto said incoming channel, based on a result of said applying said predetermined criterion.

- 2. (Original) The method of claim 1, wherein said act of said channel locking procedure is to determine a symbol rate of an incoming channel.
- 3. (Original) The method of claim 1, wherein said act of said channel locking procedure is to determine a signal type of an incoming channel.
- 4. (Original) The method of claim 1, wherein applying said criterion comprises determining from said interim data whether a symbol rate of a channel matches a symbol rate required by said broadband demodulator.
- 5. (Original) The method of claim 1, wherein applying said criterion comprises determining from said interim data whether a signal symbol spectrum picture of a channel matches a signal spectrum picture required by said broadband demodulator.
- 6. (Original) The method of claim 1, wherein the determining whether to continue said channel locking procedure includes using one or more selected Quadrature Amplitude Modulation checks.
- 7. (Original) The method of claim 1, further comprising initiating at least one channel locking procedure retry.
- 8. (Original) The method of claim 7, further comprising counting a number of channel locking procedure retries.
- 9. (Original) The method of claim 8, wherein if said number of channel locking attempts is less than a pre-selected threshold, initiating a retry command.
- 10. (Original) The method of claim 8, wherein if said number of channel locking attempts is greater than a selected threshold, initiating a channel locking procedure using an alternative frequency.

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- 11. (Original) The method of claim 1, further comprising completing said channel lock procedure if said predetermined criterion for continuing said channel lock procedure has been met.
- 12. (Currently Amended) An apparatus comprising:
- a broadband demodulator to perform a channel locking procedure on an incoming channel, said demodulator having a channel lock sensing mechanism to determine whether to continue said channel locking procedure onto said incoming channel by based on a result of applying a predetermined criterion to interim channel locking data, said data resulting from an act of said channel locking procedure.
- 13. (Original) The apparatus of claim 12, wherein a controller manages operation of said lock sensing mechanism.
- 14. (Original) The apparatus of claim 12, further comprising a memory to store instructions to enable operation of said lock sense mechanism.
- 15. (Currently Amended) A cable modern device, comprising:
- a controller to determine whether to continue locking onto an incoming channel by based on a result of applying a predetermined criterion to interim operational data, said data resulting from an act of said channel locking procedure; and
 - a demodulator to demodulate a signal received over said incoming channel.
- 16. (Original) The device of claim 15, wherein said controller determines from said interim data of said channel-locking procedure whether a symbol rate of a channel matches a symbol rate required by the cable modern device.
- 17. (Original) The device of claim 15, wherein said controller determines from said interim data of said channel-locking procedure whether a signal spectrum picture of a channel matches a signal spectrum picture required by the cable modern device.
- 18. (Currently Amended) An article comprising a storage medium having stored thereon instructions that, when executed by a processing platform, result in performing a channel locking procedure on an incoming channel by a broadband demodulator; applying a predetermined criterion to interim channel locking data, said data resulting from of said channel-locking procedure, and determining whether to continue said channel locking procedure onto said incoming channel, based on a result of said applying said predetermined criterion.

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- (Original) The article of claim 18, wherein applying said criterion comprises ·19. determining whether a symbol rate of a channel matches a symbol rate required by a broadband demodulator.
- (Original) The article of claim 18, wherein applying said criterion comprises 20. determining whether a signal symbol spectrum picture of a channel matches a signal spectrum picture required by a broadband demodulator.
- (Original) The article of claim 18, wherein the instructions further result in 21. completing said channel lock procedure if said predetermined criterion has been met.
- 22. (Currently Amended) A cable network communication system, comprising:
 - a cable modem termination system to broadcast signals; and
- a cable modem having a demodulator adapted to screen broadcast signals during a channel locking procedure on an incoming channel by applying a predetermined criterion to interim operational data, said data resulting from an act of said channel locking procedure to lock onto said incoming channel, and determining whether to screen a broadcast signal, based on a result of said applying said predetermined criterion.
- 23. (Original) The cable network communication system of claim 22, wherein said cable modern comprises a controller to execute instructions to screen said broadcast signals during said channel locking procedure.
- (Original) The cable network communication system of claim 22, wherein said 24. cable modern comprises a memory unit to store instructions to screen said broadcast signals during said channel locking procedure.
- 25. (Original) The cable network communication system of claim 22, wherein said cable modem rejects unwanted broadcast signals before said locking procedure is completed.

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